

PAT-NO: JP02001179588A

DOCUMENT-IDENTIFIER: JP 2001179588 A

TITLE: CLOTH FOR POLISHING MAGNETIC DISK

PUBN-DATE: July 3, 2001

INVENTOR- INFORMATION:

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ASSIGNEE- INFORMATION:

NAME	COUNTRY
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APPL-NO: JP11366070

APPL-DATE: December 24, 1999

INT-CL (IPC): B24B021/00, D03D001/00, D03D015/00, G11B005/84

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a cloth for polishing a magnetic disk allowing texture machining of uniform surface roughness Ra without cutting of thread, when slurry containing free grains with 1 μ m or less of average grain size is used.

SOLUTION: In the cloth for polishing the magnetic disk using the slurry containing free grains with 1 μ m or less of average grain size crimped thread of polyester extra fine filament fiber with single fiber diameter D of 0.01-10 μ m and $D/d \geq 27$ for average grain size d of the grains is used as weft. The cloth comprises five or more satin fabric with cover factor of CF of

2400-3400 represented by the following equation. CF=[warp total
fineness
(dtex)]^{1/2} × warp density (number/25.4 mm) + [weft total
fineness
(dtex)]^{1/2} × weft density (number/25.4 mm).

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TITLE: Textile fabric for polishing magnetic disk has
polyester extra fine filament fiber and grinding
particles whose ratio of diameter satisfies specified relation

PATENT-ASSIGNEE: TORAY IND INC [TORA]

PRIORITY-DATA: 1999JP-0366070 (December 24, 1999)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: JP2001179588A

BASIC-ABSTRACT:

NOVELTY - Polyester extra fine filament fiber includes weft thread covering crimp thread. Diameter of fiber is 0.01-10 mm and that of grinding particles in slurry is 1 mm or less. The ratio of the diameter of fiber to mean particle diameter of grinding particles is greater than or equal to 27. The fabric is woven by 5 or more sheets of satin whose cover factor defined by specified equation is 2400-3400.

USE - For polishing magnetic disks.

ADVANTAGE - Since the ratio of the diameter of fabric and grinding particles satisfies specified relation, the breakage of thread occurred during texture processing is reduced. Since textile fiber is woven by satin with specified cover factor, the grinding particles are evenly distributed on the textile surface, and hence disk substrate is processed efficiently with uniform surface roughness.

DESCRIPTION OF DRAWING(S) - The figure explains the texture processing method.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: TEXTILE FABRIC POLISH MAGNETIC DISC POLYESTER EXTRA FINE FILAMENT

GRIND PARTICLE RATIO DIAMETER SATISFY SPECIFIED RELATED

DERWENT-CLASS: A23 A88 F03 L03 P61 T03

CPI-CODES: A05-E01B3; A12-A03; A12-E; A12-S05F; F01-E06; F02-A03A;
F04-E;
L03-B05B;

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